



# Hardness Conversion Table

Rockwell	Brinell (BHN)	Vickers	Shore	Approx Tensile Strength (ksi)	Rockwell	Brinell (BHN)	Vickers	Shore	Approx Tensile Strength (ksi)
C scale	10mm Ball Steel	Diamond Pyramid			C scale	10mm Ball Steel	Diamond Pyramid		
150kgf Brale	3000 kgf	10kgf	Sciero-scope		150kgf Brale	3000 kgf	10kgf	Sciero-scope	
70	---	1076	101	---	37	344	363	50	172
69	---	1044	99	---	36	336	354	49	167
68	---	940	97	---	35	327	345	48	163
67	---	900	95	---	34	319	336	47	159
66	---	865	92	---	33	311	327	46	154
65	739	832	91	---	32	301	318	44	149
64	722	800	88	---	31	294	310	43	146
63	705	772	87	---	30	286	302	42	142
62	688	746	85	---	29	279	294	41	138
61	670	720	83	---	28	271	286	41	134
60	654	697	81	---	27	264	279	40	130
59	634	674	80	329	26	258	272	39	127
58	615	653	78	319	25	253	266	38	125
57	595	633	76	307	24	247	260	37	122
56	577	613	75	297	23	240	254	36	120
55	560	595	74	288	22	234	248	35	116
54	543	577	72	279	21	228	243	35	113
53	525	560	71	269	20	222	238	34	111
52	500	544	69	262	18	216	230	33	---
51	487	528	68	253	16	210	222	32	---
50	475	513	67	245	15	205	213	31	---
49	464	498	66	238	13	200	208	30	---
48	451	484	64	231	12	195	204	29	---
47	442	471	63	224	10	190	196	28	---
46	432	458	62	218	9	185	192	27	---
45	421	446	60	212	8	180	188	26	---
44	409	434	58	206	7	176	184	26	---
43	400	423	57	201	6	172	180	26	---
42	390	412	56	196	5	169	176	25	---
41	381	402	55	191	4	165	173	25	---
40	371	392	54	186	3	162	170	25	---
39	362	382	52	181	2	159	166	24	---
38	353	372	51	176	1	156	163	24	---
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1. Valid ranges for the Rockwell C scale are from 20 units to 70 units.
2. Source: The hardness values in this table are based off those shown in the American Society for Testing and Materials Specification E140-67.
3. Toolcraft (TCI) has made a concerted effort to provide accurate information on its website, however TCI assumes no responsibility for the accuracy of the information.